

RAW SEQUENCE LISTING

DATE: 03/30/2001

PATENT APPLICATION: US/09/805,805

TIME: 14:45:38

Input Set : A:\01006A1seq.txt

Output Set: N:\CRF3\03302001\I805805.raw

ENTERED

3 <110> APPLICANT: Bass, Michael B.
4 Jing, Shuqian
6 <120> TITLE OF INVENTION: Fibroblast Growth Factor-Like Molecules and Uses
7 Thereof
9 <130> FILE REFERENCE: 01-006-A1
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/805,805
C--> 12 <141> CURRENT FILING DATE: 2001-03-13
14 <150> PRIOR APPLICATION NUMBER: 60/188,786
15 <151> PRIOR FILING DATE: 2000-03-13
17 <160> NUMBER OF SEQ ID NOS: 11
19 <170> SOFTWARE: PatentIn Ver. 2.0
21 <210> SEQ ID NO: 1
22 <211> LENGTH: 1330
23 <212> TYPE: DNA
24 <213> ORGANISM: Homo sapiens
26 <220> FEATURE:
27 <221> NAME/KEY: CDS
28 <222> LOCATION: (610)..(1245)
30 <400> SEQUENCE: 1
31 tacacggccg cagctgaaca gcatcaccgc tgtcccaagg acaaccccaa agaggggcct 60
33 cgactgcacc tcctcgaagt tgctggctgg ctttggcaag tgcaggaatg gtgttttgtg 120
35 agggcatgga tggagaagtg ccaagggccc ctgttttggt acttccgaag agcaaaaacg 180
37 tgttgagagg agaccgggtt aagatttcaa acagaacctc ccagcgcgc atgaaaggac 240
39 ttgattagca tatgtcaaga ggaccgcgtt atatactcgg tgtgtatgta cacaggactc 300
41 tgatctgata agtttgcgga attggagccc cagccaacag ccctagtcct agtattggca 360
43 gcggcagcta tagatatattc tgcagagcca gcagccggct cccacctacc caaggagaga 420
45 agatcgctcc aagacagtga gagcttccct gccatttcag tgcaaagtcc ctccggagcg 480
47 acctcagagg agtaaccggg ccttaacttt ttgcgctcgt tttgctataa tttttctcta 540
49 tccacctcca tcccaccccc acaacactct ttactggggg ggtcttttgt gttccggatc 600
51 tccccctcc atg gct ccc tta gcc gaa gtc ggg ggc ttt ctg ggc ggc ctg 651
52 Met Ala Pro Leu Ala Glu Val Gly Gly Phe Leu Gly Gly Leu
53 1 5 10
55 gag ggc ttg ggc cag cag gtg ggt tcg cat ttc ctg ttg cct cct gcc 699
56 Glu Gly Leu Gly Gln Gln Val Gly Ser His Phe Leu Leu Pro Pro Ala
57 15 20 25 30
59 ggg gag cgg ccg ccg ctg ctg ggc gag cgc agg agc gcg gcg gag cgg 747
60 Gly Glu Arg Pro Pro Leu Leu Gly Glu Arg Arg Ser Ala Ala Glu Arg
61 35 40 45
63 agc gcc cgc ggc ggg ccg ggg gct gcg cag ctg gcg cac ctg cac ggc 795
64 Ser Ala Arg Gly Gly Pro Gly Ala Ala Gln Leu Ala His Leu His Gly
65 50 55 60
67 atc ctg cgc cgc cgg cag ctc tat tgc cgc acc ggc ttc cac ctg cag 843
68 Ile Leu Arg Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln
69 65 70 75
71 atc ctg ccc gac ggc agc gtg cag ggc acc cgg cag gac cac agc ctc 891
72 Ile Leu Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp His Ser Leu
73 80 85 90

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/805,805

DATE: 03/30/2001

TIME: 14:45:38

Input Set : A:\01006A1seq.txt

Output Set: N:\CRF3\03302001\I805805.raw

```

75 ttc ggt atc ttg gaa ttc atc agt gtg gca gtg gga ctg gtc agt att 939
76 Phe Gly Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu Val Ser Ile
77 95 100 105 110
79 aga ggt gtg gac agt ggt ctc tat ctt gga atg aat gac aaa gga gaa 987
80 Arg Gly Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Asp Lys Gly Glu
81 115 120 125
83 ctc tat gga tca gag aaa ctt act tcc gaa tgc atc ttt agg gag cag 1035
84 Leu Tyr Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln
85 130 135 140
87 ttt gaa gag aac tgg tat aac acc tat tca tct aac ata tat aaa cat 1083
88 Phe Glu Glu Asn Trp Tyr Asn Thr Tyr Ser Ser Asn Ile Tyr Lys His
89 145 150 155
91 gga gac act ggc cgc agg tat ttt gtg gca ctt aac aaa gac gga act 1131
92 Gly Asp Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr
93 160 165 170
95 cca aga gat ggc gcc agg tcc aag agg cat cag aaa ttt aca cat ttc 1179
96 Pro Arg Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe Thr His Phe
97 175 180 185 190
99 tta cct aga cca gtg gat cca gaa aga gtt cca gaa ttg tac aag gac 1227
100 Leu Pro Arg Pro Val Asp Pro Glu Arg Val Pro Glu Leu Tyr Lys Asp
101 195 200 205
103 cta ctg atg tac act tga agtgcgatag tgacattatg gaagagtcaa 1275
104 Leu Leu Met Tyr Thr
105 210
107 accacaacca ttctttcttg tcatagttcc catcataaaa taatgaccca agcag 1330
110 <210> SEQ ID NO: 2
111 <211> LENGTH: 211
112 <212> TYPE: PRT
113 <213> ORGANISM: Homo sapiens
115 <400> SEQUENCE: 2
116 Met Ala Pro Leu Ala Glu Val Gly Gly Phe Leu Gly Gly Leu Glu Gly
117 1 5 10 15
119 Leu Gly Gln Gln Val Gly Ser His Phe Leu Leu Pro Pro Ala Gly Glu
120 20 25 30
122 Arg Pro Pro Leu Leu Gly Glu Arg Ser Ala Ala Glu Arg Ser Ala
123 35 40 45
125 Arg Gly Gly Pro Gly Ala Ala Gln Leu Ala His Leu His Gly Ile Leu
126 50 55 60
128 Arg Arg Arg Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Gln Ile Leu
129 65 70 75 80
131 Pro Asp Gly Ser Val Gln Gly Thr Arg Gln Asp His Ser Leu Phe Gly
132 85 90 95
134 Ile Leu Glu Phe Ile Ser Val Ala Val Gly Leu Val Ser Ile Arg Gly
135 100 105 110
137 Val Asp Ser Gly Leu Tyr Leu Gly Met Asn Asp Lys Gly Glu Leu Tyr
138 115 120 125
140 Gly Ser Glu Lys Leu Thr Ser Glu Cys Ile Phe Arg Glu Gln Phe Glu
141 130 135 140
143 Glu Asn Trp Tyr Asn Thr Tyr Ser Ser Asn Ile Tyr Lys His Gly Asp

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/805,805

DATE: 03/30/2001

TIME: 14:45:38

Input Set : A:\01006A1seq.txt

Output Set: N:\CRF3\03302001\I805805.raw

```

144 145                      150                      155                      160
146 Thr Gly Arg Arg Tyr Phe Val Ala Leu Asn Lys Asp Gly Thr Pro Arg
147                      165                      170                      175
149 Asp Gly Ala Arg Ser Lys Arg His Gln Lys Phe Thr His Phe Leu Pro
150                      180                      185                      190
152 Arg Pro Val Asp Pro Glu Arg Val Pro Glu Leu Tyr Lys Asp Leu Leu
153                      195                      200                      205
155 Met Tyr Thr
156      210
159 <210> SEQ ID NO: 3
160 <211> LENGTH: 208
161 <212> TYPE: PRT
162 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 3
165 Met Ala Pro Leu Gly Glu Val Gly Asn Tyr Phe Gly Val Gln Asp Ala
166 1      5      10      15
168 Val Pro Phe Gly Asn Val Pro Val Leu Pro Val Asp Ser Pro Val Leu
169      20      25      30
171 Leu Ser Asp His Leu Gly Gln Ser Glu Ala Gly Gly Leu Pro Arg Gly
172      35      40      45
174 Pro Ala Val Thr Asp Leu Asp His Leu Lys Gly Ile Leu Arg Arg Arg
175      50      55      60
177 Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly
178 65      70      75      80
180 Thr Ile Gln Gly Thr Arg Lys Asp His Ser Arg Phe Gly Ile Leu Glu
181      85      90      95
183 Phe Ile Ser Ile Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser
184      100     105     110
186 Gly Leu Tyr Leu Gly Met Asn Glu Lys Gly Glu Leu Tyr Gly Ser Glu
187      115     120     125
189 Lys Leu Thr Gln Glu Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp
190      130     135     140
192 Tyr Asn Thr Tyr Ser Ser Asn Leu Tyr Lys His Val Asp Thr Gly Arg
193 145     150     155     160
195 Arg Tyr Tyr Val Ala Leu Asn Lys Asp Gly Thr Pro Arg Glu Gly Thr
196      165     170     175
198 Arg Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val
199      180     185     190
201 Asp Pro Asp Lys Val Pro Glu Leu Tyr Lys Asp Ile Leu Ser Gln Ser
202      195     200     205
208 <210> SEQ ID NO: 4
209 <211> LENGTH: 208
210 <212> TYPE: PRT
211 <213> ORGANISM: Rattus norvegicus
213 <400> SEQUENCE: 4
214 Met Ala Pro Leu Gly Glu Val Gly Ser Tyr Phe Gly Val Gln Asp Ala
215 1      5      10      15
217 Val Pro Phe Gly Asn Val Pro Val Leu Pro Val Asp Ser Pro Val Leu
218      20      25      30

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/805,805

DATE: 03/30/2001

TIME: 14:45:38

Input Set : A:\01006A1seq.txt

Output Set: N:\CRF3\03302001\I805805.raw

```

220 Leu Ser Asp His Leu Gly Gln Ser Glu Ala Gly Gly Leu Pro Arg Gly
221          35          40          45
223 Pro Ala Val Thr Asp Leu Asp His Leu Lys Gly Ile Leu Arg Arg Arg
224          50          55          60
226 Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly
227          65          70          75          80
229 Thr Ile Gln Gly Thr Arg Lys Asp His Ser Arg Phe Gly Ile Leu Glu
230          85          90          95
232 Phe Ile Ser Ile Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser
233          100          105          110
235 Gly Leu Tyr Leu Gly Met Asn Glu Lys Gly Glu Leu Tyr Gly Ser Glu
236          115          120          125
238 Lys Leu Thr Gln Glu Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp
239          130          135          140
241 Tyr Asn Thr Tyr Ser Ser Asn Leu Tyr Lys His Val Asp Thr Gly Arg
242          145          150          155          160
244 Arg Tyr Tyr Val Ala Leu Asn Lys Asp Gly Thr Pro Arg Glu Gly Thr
245          165          170          175
247 Arg Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val
248          180          185          190
250 Asp Pro Asp Lys Val Pro Glu Leu Tyr Lys Asp Ile Leu Ser Gln Ser
251          195          200          205
257 <210> SEQ ID NO: 5
258 <211> LENGTH: 207
259 <212> TYPE: PRT
260 <213> ORGANISM: Homo sapiens
262 <400> SEQUENCE: 5
263 Met Ala Glu Val Gly Gly Val Phe Ala Ser Leu Asp Trp Asp Leu His
264    1          5          10          15
266 Gly Phe Ser Ser Ser Leu Gly Asn Val Pro Leu Ala Asp Ser Pro Gly
267          20          25          30
269 Phe Leu Asn Glu Arg Leu Gly Gln Ile Glu Gly Lys Leu Gln Arg Gly
270          35          40          45
272 Ser Pro Thr Asp Phe Ala His Leu Lys Gly Ile Leu Arg Arg Arg Gln
273          50          55          60
275 Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly Thr
276          65          70          75          80
278 Val His Gly Thr Arg His Asp His Ser Arg Phe Gly Ile Leu Glu Phe
279          85          90          95
281 Ile Ser Leu Ala Val Gly Leu Ile Ser Ile Arg Gly Val Asp Ser Gly
282          100          105          110
284 Leu Tyr Leu Gly Met Asn Glu Arg Gly Glu Leu Tyr Gly Ser Lys Lys
285          115          120          125
287 Leu Thr Arg Glu Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp Tyr
288          130          135          140
290 Asn Thr Tyr Ala Ser Thr Leu Tyr Lys His Ser Asp Ser Glu Arg Gln
291          145          150          155          160
293 Tyr Tyr Val Ala Leu Asn Lys Asp Gly Ser Pro Arg Glu Gly Tyr Arg
294          165          170          175

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/805,805

DATE: 03/30/2001

TIME: 14:45:38

Input Set : A:\01006A1seq.txt

Output Set: N:\CRF3\03302001\I805805.raw

```

296 Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val Asp
297      180      185      190
299 Pro Ser Lys Leu Pro Ser Met Ser Arg Asp Leu Phe His Tyr Arg
300      195      200      205
303 <210> SEQ ID NO: 6
304 <211> LENGTH: 208
305 <212> TYPE: PRT
306 <213> ORGANISM: Mus musculus
308 <400> SEQUENCE: 6
309 Met Ala Pro Leu Gly Glu Val Gly Ser Tyr Phe Gly Val Gln Asp Ala
310  1      5      10      15
312 Val Pro Phe Gly Asn Val Pro Val Leu Pro Val Asp Ser Pro Val Leu
313      20      25      30
315 Leu Asn Asp His Leu Gly Gln Ser Glu Ala Gly Gly Leu Pro Arg Gly
316      35      40      45
318 Pro Ala Val Thr Asp Leu Asp His Leu Lys Gly Ile Leu Arg Arg Arg
319      50      55      60
321 Gln Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly
322  65      70      75      80
324 Thr Ile Gln Gly Thr Arg Lys Asp His Ser Arg Phe Gly Ile Leu Glu
325      85      90      95
327 Phe Ile Ser Ile Ala Val Gly Leu Val Ser Ile Arg Gly Val Asp Ser
328      100     105     110
330 Gly Leu Tyr Leu Gly Met Asn Glu Lys Gly Glu Leu Tyr Gly Ser Glu
331      115     120     125
333 Lys Leu Thr Gln Glu Cys Val Phe Arg Glu Gln Phe Glu Glu Asn Trp
334      130     135     140
336 Tyr Asn Thr Tyr Ser Ser Asn Leu Tyr Lys His Val Asp Thr Gly Arg
337  145     150     155     160
339 Arg Tyr Tyr Val Ala Leu Asn Lys Asp Gly Thr Pro Arg Glu Gly Thr
340      165     170     175
342 Arg Thr Lys Arg His Gln Lys Phe Thr His Phe Leu Pro Arg Pro Val
343      180     185     190
345 Asp Pro Asp Lys Val Pro Glu Leu Tyr Lys Asp Ile Leu Ser Gln Ser
346      195     200     205
352 <210> SEQ ID NO: 7
353 <211> LENGTH: 207
354 <212> TYPE: PRT
355 <213> ORGANISM: Mus musculus
357 <400> SEQUENCE: 7
358 Met Ala Glu Val Gly Gly Val Phe Ala Ser Leu Asp Trp Asp Leu Gln
359  1      5      10      15
361 Gly Phe Ser Ser Ser Leu Gly Asn Val Pro Leu Ala Asp Ser Pro Gly
362      20      25      30
364 Phe Leu Asn Glu Arg Leu Gly Gln Ile Glu Gly Lys Leu Gln Arg Gly
365      35      40      45
367 Ser Pro Thr Asp Phe Ala His Leu Lys Gly Ile Leu Arg Arg Arg Gln
368      50      55      60
370 Leu Tyr Cys Arg Thr Gly Phe His Leu Glu Ile Phe Pro Asn Gly Thr

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/805,805

DATE: 03/30/2001

TIME: 14:45:39

Input Set : A:\01006A1seq.txt

Output Set: N:\CRF3\03302001\I805805.raw

L:11 M:270 C: Current Application Number differs, Replaced Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date